

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 5,582,989  
DATED : December 10, 1996  
INVENTOR(S) : C. T. Caskey

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

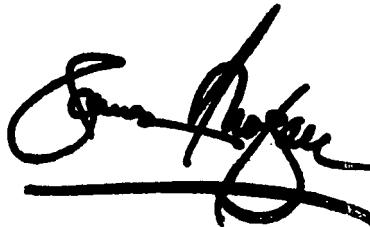
Column 1,

Line 4, insert:

-- This invention was made with government support under Grant No. R22 DK35369 awarded by the National Institutes of Health. The United States Government may have certain rights in the invention. --

Signed and Sealed this

Thirtieth Day of December, 2003

A handwritten signature in black ink, appearing to read "James E. Rogan", with a long horizontal stroke underneath.

JAMES E. ROGAN  
*Director of the United States Patent and Trademark Office*